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<b>Notice of Allowability</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	09/752,570		MOORE ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	Ricardo Pizarro		2661	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment received on 10/14/05.
2. ☒ The allowed claim(s) is/are 2-11. They have been renumbered 1-10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

### **Examiner's Amendment**

1. An Examiner's amendment for the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in a telephone interview with Mr. Benjamin Driscoll on 11/4/05

### **CLAIMS HAVE BEEN AMENDED AS FOLLOW:**

Please see Attachment to this Examiner's Amendment

### **Examiner's statement of reasons for Allowance**

2. The following is an examiner's statement of reasons for allowance:

For claim 2, the prior art of record does not teach or fairly suggest an arrangement for interfacing a HFC network and an in-home network comprising a home gateway that includes a translator for mapping between HFC protocol and in-home based protocols, a home network interface, a communication bus coupled to each of voice telephony service connection modules, a data service connection module and a cable modem for enabling communication among modules, a device database comprising configuration files associated with various in-home devices and wherein a SLA database is coupled to the gateway and comprises a list of authorized services for the in-home network, class of service and quality of service information.

Art Unit: 2661

For claim 11, the prior art of record does not teach or fairly suggest a Management method for an in-home network comprising recognizing in the home networking gateway a service request from a network device, obtaining authorization for the service and requesting said service from a network management system, providing service and recognizing at the gateway a device request for bandwidth, allocating the bandwidth on an HFC network and allocating through the gateway the requested bandwidth to the requesting device.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

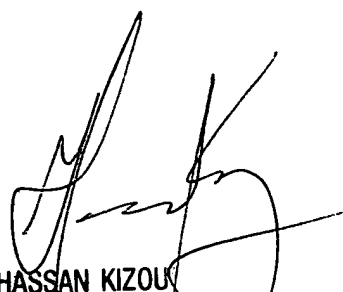
Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ricardo Pizarro** whose telephone number is (571) 272-3077. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:00 PM. The fax number for this Group is (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Hassan Kizou** can be reached on (571) 272-3088.

Art Unit: 2661

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**November 9, 2005**  
**Ricardo Pizarro**



**HASSAN KIZOU**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**

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ATTACHMENT  
TO EXAMINER'S AMENDMENT

CLAIMS

Please amend the claims as follows:

1. (Cancelled)
2. (Presently amended) An arrangement for providing a communication interface between a hybrid fiber coaxial (HFC) network and an in-home communications network, the arrangement comprising:
  - a home networking gateway disposed to communicate with the HFC network and couple communications to the in-home network, the home networking gateway including a translator for mapping between HFC-based communication protocols and in-home network-based protocols, ~~said home networking gateway for performing device discovery and network management of said in-home network~~ wherein the home networking gateway further comprises:
    - a home network interface connection module for supporting a pre-defined in-home communication protocol;
    - a voice telephony service connection module, coupled to the home network interface connection module, for providing communication with in-home telephony devices;
    - a data service connection module for providing communication with in-home data-based devices;

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a cable modem connection module for providing communication with the HFC network;

a communication bus coupled to each of the voice telephone service connection module, the data service connection module and the cable modem connection module for enabling communication between each module; and

a translator processor coupled to the communication bus for mapping between communication protocols used by the HFC network and protocols used by the in-home network and providing translated protocols with each transaction;

a device database coupled to said home networking gateway and comprising configuration files associated with various in-home telecommunications devices; and

a service level agreement database coupled to said home networking gateway and comprising a listing of authorized services for the in-home network, class of service information and quality of service information.

3. (Original) The arrangement as defined in claim 2 wherein the voice telephony service connection module comprises a subscriber line interface circuit (SLIC) connection.

4. (Original) The arrangement as defined in claim 2 wherein the data service connection module comprises an Ethernet connection.

5. (Original) The arrangement as defined in claim 2 wherein the in-home network protocol is a wireless service protocol.

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6. (Original) The arrangement as defined in claim 5 wherein the wireless protocol comprises the Shared Wireless Access Protocol (SWAP).
7. (Original) The arrangement as defined in claim 2 wherein the in-home network protocol comprises the Home Phoneline Network Alliance (HomePNA) protocol.
8. (Original) The arrangement as defined in claim 2 wherein the in-home network protocol comprises the IEEE 1394 FireWire protocol.
9. (Original) The arrangement as defined in claim 2 wherein the home networking gateway further comprises an internal battery power supply.
10. (Previously presented) The arrangement as defined by claim 2 wherein the home networking gateway further comprises a digital signal processor (DSP) coupled between the voice connection module and the home network interface module to distribute voice signals from said voice communication module into the in-home network through said home network interface module.
11. (Currently amended) A method of providing network management for an in-home network of communication devices coupled to an external HFC network through a home networking gateway, the method comprising:
- ~~performing, using the home networking gateway, a device discovery process to determine the plurality of devices and services existing in the in-home network;~~

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~~reporting the discovered information to an inventory management system;~~  
recognizing at the home networking gateway a service request from an in-home network device;  
obtaining authorization for said service from a network management system;  
upon authorization, requesting said service from a call management system; and  
providing said service to the in-home device;  
recognizing at the home networking gateway a device request for bandwidth;  
obtaining authorization bandwidth from a network management system;  
upon authorization, requesting bandwidth from a cable modem termination system (CMTS);  
allocating the requested bandwidth on the HFC network; and  
allocating, through the home networking gateway, the requested bandwidth on the in-home network to the requesting device.

12-15. (Cancelled)